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TITLE: Coating of cermets with diamond for cutting tools
INVENTOR(S): Sato, Yasushi; Saito, Yukio; Gomi, Kenichi; Nishimura, Shigeoki; Sakoda, Kotaro
PATENT ASSIGNEE(S): Hitachi, Ltd., Japan; Babcock-Hitachi K. K.
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PATENT INFORMATION:

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ABSTRACT:

Cermets for cutting tools are etched by a plasma contg. CO, H₂O, and/or hydrogen halide to remove Co and/or Ni from the surface and coated with diamond. Thus, a cermet contg. TiC 20, Co 6, Ni 6, and WC 66% was etched by plasma contg. 2 CO and 98 vol.% H and coated with 2- μ m diamond. The bonding strength of diamond coating was 2.1-2.7 kg/mm² vs. 0.1-0.2 kg/mm² without plasma etching.